GE
Lighting

Evolve™ LED Flood Light

N Series (EFNA)

imagination at work

Product Features

The next generation of the GE Evolve™ LED Flood Light is a bright solution to efficiently illuminate building façade, flag poles, billboard signage and many more traditional flood applications. The Evolve LED Flood Light has a diverse portfolio of optical patterns available to maximize efficiency, highlight effectively, and beautifully illuminate a range of diverse application spaces.

Applications

- General flood applications, including, but not limited to; billboard/bulletin, spot and flag poles, building facade', and general parking.

Housing

- Die-cast aluminum housing.
- Slim architectural design incorporates an integral heat sink and light engine, ensuring maximum heat transfer, long LED life, and a reduced Effective Projected Area (EPA).
- Meets 2G vibration level per ANSI C136.31-2010.

LED & Optical Assembly

- Photometric system utilizes GE's advanced reflective LED optical system providing high uniformity, and excellent light distribution.
- Utilizes high brightness LEDs, 70CRI at 4000K and 5000K.

Lumen Maintenance

- System rating is L85 @ 50,000 hours. Contact manufacturer for Lxx rating (Lumen Depreciation) beyond 50,000 hours..

Ratings

- cULus listed, suitable for wet locations.
- IP66 rated optical enclosure per ANSI C136.25-2009.
- Temperature rated at –40° to 50°C.
- Compliant with the material restriction requirements of RoHS.

Mounting

Option T

- Trunnion, pre-wired with 3ft #14/3 cable.

Option K

- Knuckle Slipfitter for 1.9" to 2.38" OD Tenon, pre-wired with 24-inch (610mm) leads.

Option S

- Knuckle Slipfitter mounting for 2.3-3" O.D. pipe, pre-wired with 24-inch (610mm) leads.

Option V

- Knuckle Wall Mount, pre-wired with 24-inch (610mm) leads.

Finish

- Corrosion resistant polyester powder painted, minimum 2.0 mil. thickness.
- Standard colors: Black & Dark Bronze.
- RAL & custom colors available.

Electrical

- 120-277 volt and 347-480 volt available.
- System power factor is >90% and THD <20%.
- Photo electric sensors (PE) available for all voltages.
- GE dimmable PE socket is available making the unit "adaptive controls ready." Contact manufacturer for details.
- Dimming:
  - Wired 0-10V continuous dimming with "D" option code
- Surge Protection Options:
  For 120-277VAC and 347-480VAC per IEEE/ANSI C136.2-2014.
  - 6kV/3kA "Basic" surge protection, standard.
  - 10kV/5kA "Enhanced" surge protection available with "R" option code.

Ordering Number Logic

Evolve LED Flood Light N Series (EFNA)

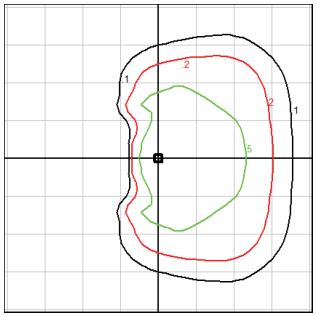
E F N A _ __ 5 __ _ _ ____ ___

PROD. ID	PHOTOMETRIC SERIES	VOLTAGE	OPTICAL CODE	DRIVE CURRENT	LED COLOR TEMP	PE FUNCTION	MOUNTING ARM	COLOR	OPTIONS
E = Evolve **F** = Flood Light **N** = Housing Series	**A** = Photometric Series "A"	**0** = 120-277 **1** = 120* **2** = 208* **3** = 240* **4** = 277* **5** = 480* **H** = 347-480V **D** = 347* * Specify single voltage only if fuse option is selected.		**5** = 525mA	**40** = 4000K **50** = 5000K	**1** = None **2** = PE Rec. **4** = PE Rec. with Shorting cap **5** = PE Rec. with Control ** **A** = ANSI C136.41 7-pin PE Receptacle †# **D** = ANSI C136.41 7-pin PE Receptacle with Shorting Cap †# ** PE control not available for 347-480V. Must be a discrete voltage (347V or 480V). † When ordering PE function socket A or D, a dimming driver must also be ordered under the "OPTIONS" column. # Order Dimming/Control PE as a separate item.	**T** = Trunnion, pre-wired with 3ft #14/3 cable, standard * **K** = Knuckle Slipfitter for 1.9 in to 2.38 in OD Tenon **S** = Knuckle Slipfitter for 1.9 in to 3 in OD Tenon **V** = Knuckle Wall Mount * When Dimming option is selected without Dimming PE, a #14-5 cable will be supplied at length above.	**BLCK** = Black **DKBZ** = Dark Bronze Contact manufacturer for other colors.	**D** = Dimming (0-10 Volt Input) † **F** = Fusing **R** = 10kV Enhanced Surge Protection **P** = Prewired with 6 FT #14/3 Cable* **XXX** = Special Options † Dimming leads will be provided through the back of the arm, unless specified with A or D PE Function. * When Dimming option is selected without Dimming PE, a #14-5 cable will be supplied at length above.

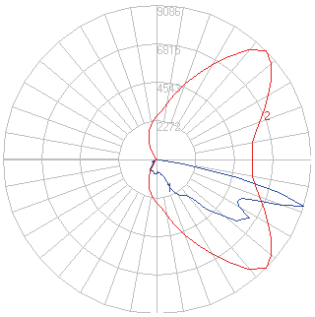
OPTICAL CODE	TYPE	TYPICAL INITIAL LUMENS		TYPICAL SYSTEM WATTAGE		IES FILE NUMBER	
		4000K	5000K	120-277V	347-480V	4000K	5000K
A4	Asymmetric Forward	3,730	3,750	46	46	EFNA_A4540__-120-277V.IES	EFNA_A4550__-120-277V.IES
B4	Asymmetric Forward	5,510	5,540	65	65	EFNA_B4540__-120-277V.IES	EFNA_B4550__-120-277V.IES
C4	Asymmetric Forward	7,180	7,210	85	85	EFNA_C4540__.IES	EFNA_C4550__.IES
D4	Asymmetric Forward	8,810	8,850	104	104	EFNA_D4540__.IES	EFNA_D4550__.IES
E4	Asymmetric Forward	10,370	10,410	123	123	EFNA_E4540__.IES	EFNA_E4550__.IES
F4	Asymmetric Forward	12,320	12,380	148	148	EFNA_F4540__.IES	EFNA_F4550__.IES
A3	Asymmetric Wide	4,070	4,090	46	46	EFNA_A3540__-120-277V.IES	EFNA_A3550__-120-277V.IES
B3	Asymmetric Wide	6,010	6,040	65	65	EFNA_B3540__-120-277V.IES	EFNA_B3550__-120-277V.IES
C3	Asymmetric Wide	7,830	7,860	85	85	EFNA_C3540__.IES	EFNA_C3550__.IES
D3	Asymmetric Wide	9,620	9,650	104	104	EFNA_D3540__.IES	EFNA_D3550__.IES
E3	Asymmetric Wide	11,320	11,360	123	123	EFNA_E3540__.IES	EFNA_E3550__.IES
F3	Asymmetric Wide	13,450	13,500	148	148	EFNA_F3540__.IES	EFNA_F3550__.IES
A2	Asymmetric Narrow	3,940	3,960	46	46	EFNA_A2540__-120-277V.IES	EFNA_A2550__-120-277V.IES
B2	Asymmetric Narrow	5,820	5,850	65	65	EFNA_B2540__-120-277V.IES	EFNA_B2550__-120-277V.IES
C2	Asymmetric Narrow	7,580	7,620	85	85	EFNA_C2540__.IES	EFNA_C2550__.IES
D2	Asymmetric Narrow	9,310	9,350	104	104	EFNA_D2540__.IES	EFNA_D2550__.IES
E2	Asymmetric Narrow	10,960	11,010	123	123	EFNA_E2540__.IES	EFNA_E2550__.IES
F2	Asymmetric Narrow	13,020	13,080	148	148	EFNA_F2540__.IES	EFNA_F2550__.IES
AS	20° Spot	4,340	4,360	46	46	EFNA_AS540__-120-277V.IES	EFNA_AS550__-120-277V.IES
BS	20° Spot	6,410	6,440	65	65	EFNA_BS540__-120-277V.IES	EFNA_BS550__-120-277V.IES
CS	20° Spot	8,350	8,380	85	85	EFNA_CS540__.IES	EFNA_CS550__.IES
DS	20° Spot	10,250	10,290	104	104	EFNA_DS540__.IES	EFNA_DS550__.IES
ES	20° Spot	12,060	12,100	123	123	EFNA_ES540__.IES	EFNA_ES550__.IES
FS	20° Spot	14,330	14,390	148	148	EFNA_FS540__.IES	EFNA_FS550__.IES
AW	80° Wide Flood	4,360	4,380	46	46	EFNA_AW540__-120-277V.IES	EFNA_AW550__-120-277V.IES
BW	80° Wide Flood	6,440	6,480	65	65	EFNA_BW540__-120-277V.IES	EFNA_BW550__-120-277V.IES
CW	80° Wide Flood	8,390	8,430	85	85	EFNA_CW540__.IES	EFNA_CW550__.IES
DW	80° Wide Flood	10,300	10,350	104	104	EFNA_DW540__.IES	EFNA_DW550__.IES
EW	80° Wide Flood	12,130	12,180	123	123	EFNA_EW540__.IES	EFNA_EW550__.IES
FW	80° Wide Flood	14,400	14,470	148	148	EFNA_FW540__.IES	EFNA_FW550__.IES
AE	100° Extra Wide Flood	4,260	4,290	46	46	EFNA_AE540__-120-277V.IES	EFNA_AE550__-120-277V.IES
BE	100° Extra Wide Flood	6,300	6,330	65	65	EFNA_BE540__-120-277V.IES	EFNA_BE550__-120-277V.IES
CE	100° Extra Wide Flood	8,200	8,240	85	85	EFNA_CE540__.IES	EFNA_CE550__.IES
DE	100° Extra Wide Flood	10,070	10,120	104	104	EFNA_DE540__.IES	EFNA_DE550__.IES
EE	100° Extra Wide Flood	11,860	11,910	123	123	EFNA_EE540__.IES	EFNA_EE550__.IES
FE	100° Extra Wide Flood	14,090	14,150	148	148	EFNA_FE540__.IES	EFNA_FE550__.IES

Photometrics

EFNA Type IV - Asymmetric Forward (F4)
12,380 Lumens, 5000K (EFNA_F4550__.IES)
Fixture mounted at 0° Horizontal

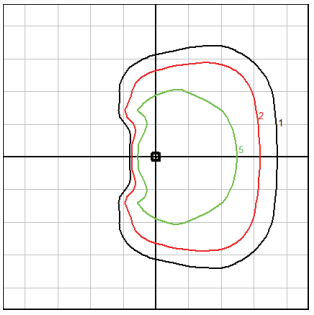


Grid Distance in Units
of Mounting Height at 30' Initial
Footcandle Values at Grade

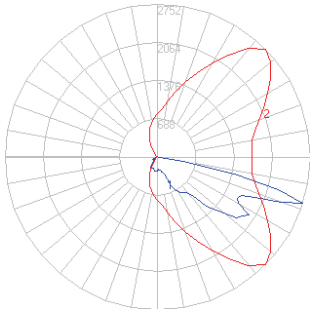


— Vertical plane through horizontal angle of maximum candlepower at 45°
— Vertical plane through horizontal angle of 72.5°

EFNA Type IV - Asymmetric Forward (A4)
3,750 Lumens, 5000K (EFNA_A4550__-120-277V.IES)
Fixture mounted at 0° Horizontal

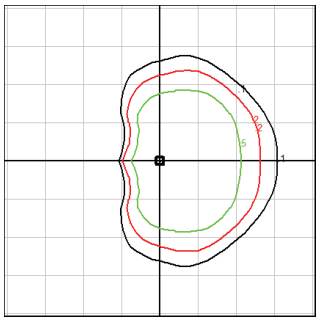


Grid Distance in Units
of Mounting Height at 15' Initial
Footcandle Values at Grade

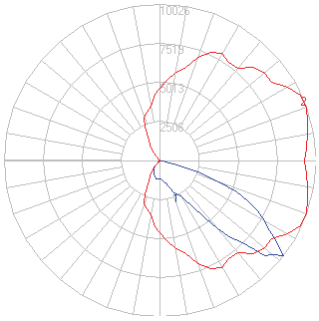


— Vertical plane through horizontal angle of maximum candlepower at 45°
— Vertical plane through horizontal angle of 72.5°

EFNA Type III - Asymmetric Wide (F3)
13,500 Lumens, 5000K (EFNA_F3550__.IES)
Fixture mounted at 0° Horizontal

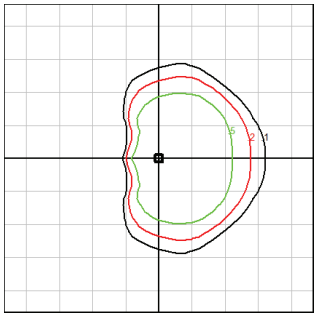


Grid Distance in Units
of Mounting Height at 30' Initial
Footcandle Values at Grade

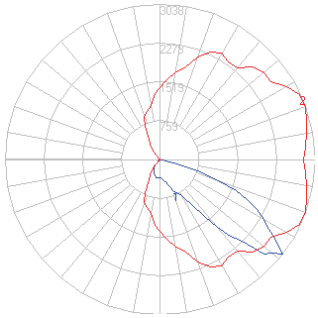


— Vertical plane through horizontal angle of maximum candlepower at 20°
— Vertical plane through horizontal angle of 52.5°

EFNA Type III - Asymmetric Wide (A3)
4,090 Lumens, 5000K (EFNA_A3550__-120-277V.IES)
Fixture mounted at 0° Horizontal

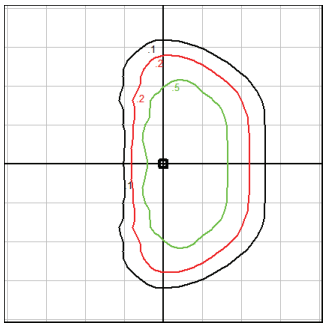


Grid Distance in Units
of Mounting Height at 15' Initial
Footcandle Values at Grade

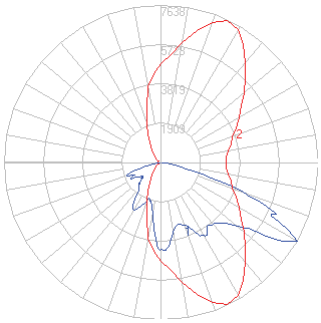


— Vertical plane through horizontal angle of maximum candlepower at 20°
— Vertical plane through horizontal angle of 52.5

EFNA Type II - Asymmetric Narrow (F2)
13,080 Lumens, 5000K (EFNA_F2550__.IES)
Fixture mounted at 0° Horizontal

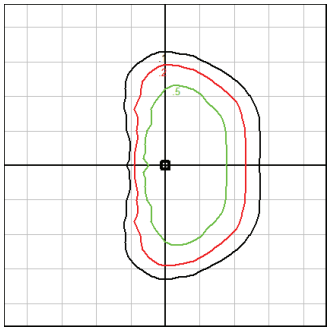


Distance in Units
of Mounting Height at 30' Initial
Footcandle Values at Grade

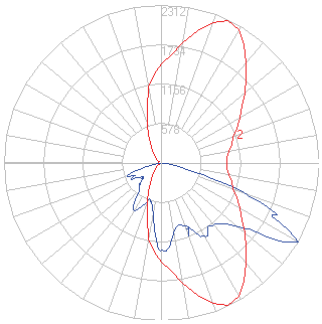


— Vertical plane through horizontal angle of maximum candlepower at 65°
— Vertical plane through horizontal angle of 60°

EFNA Type II - Asymmetric Narrow (A2)
3,960 Lumens, 5000K (EFNA_A2550__-120-277V.IES)
Fixture mounted at 0° Horizontal



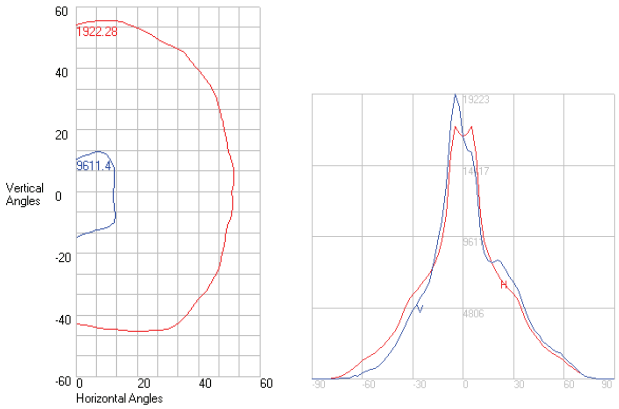
Grid Distance in Units
of Mounting Height at 15' Initial
Footcandle Values at Grade



— Vertical plane through horizontal angle of maximum candlepower at 65°
— Vertical plane through horizontal angle of 60°

Photometrics

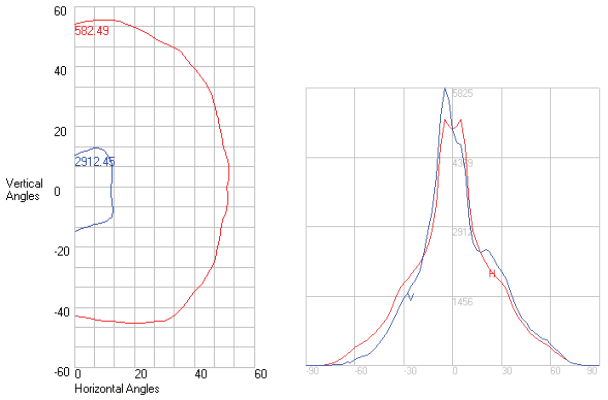
EFNA – 20° Spot (FS)
14,390 Lumens, 5000K (EFNA_FS550__.IES)



Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

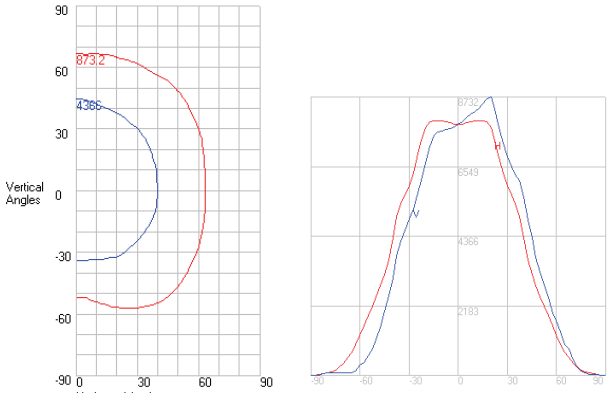
EFNA – 20° Spot (AS)
4,360 Lumens, 5000K (EFNA_AS550__-120-277V.IES)



Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

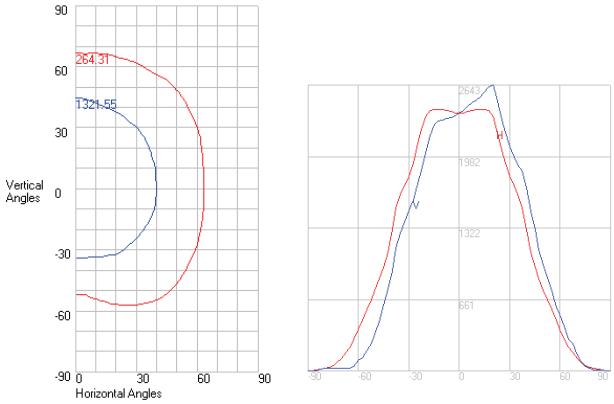
EFNA – 80° Wide Flood (FW)
14,470 Lumens, 5000K (EFNA_FW550__.IES)



Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

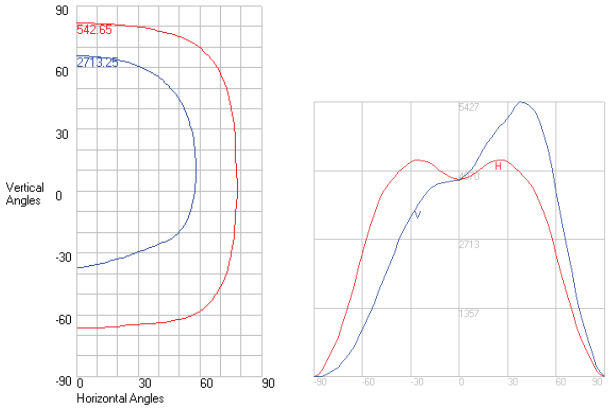
EFNA – 80° Wide Flood (AW)
4,380 Lumens, 5000K (EFNA_AW550__-120-277V.IES)



Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

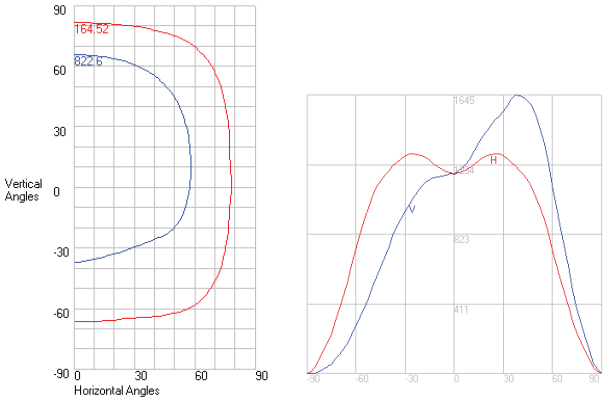
EFNA – 100° Extra Wide Flood (FE)
14,150 Lumens, 5000K (EFNA_FE550__.IES)



Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

Extra Wide Flood (AE)
4,290 Lumens, 5000K (EFNA_AE550__-120-277V.IES)



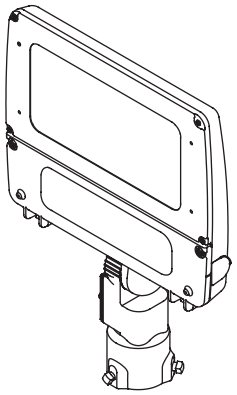
Isocandela Display
10% Max
50% Max

Axial Candela Display (Cartesian)
Horizontal
Vertical

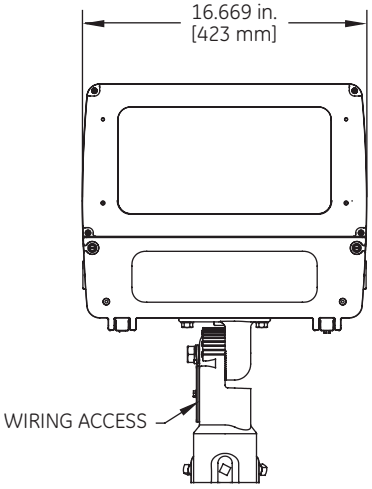
Product Dimensions

Flood Light Slipfitter Mount

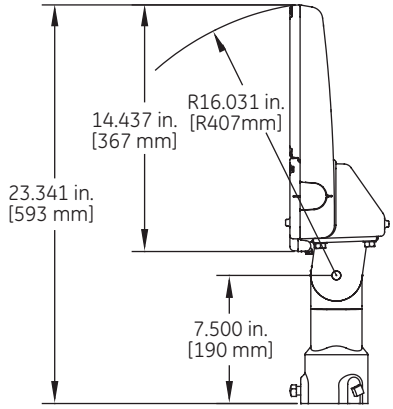
ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW

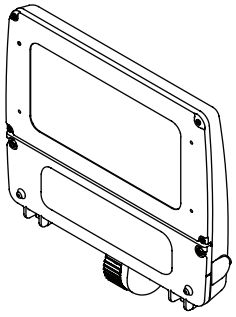


DATA

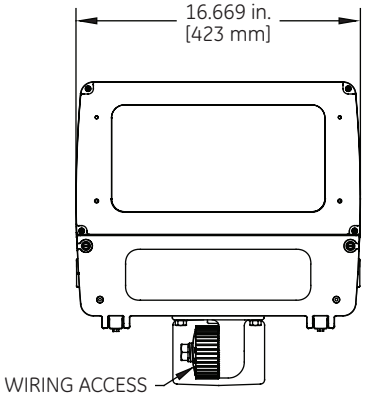
- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.56 sq ft max (0.05 sq. m)

Flood Light Wall Mount

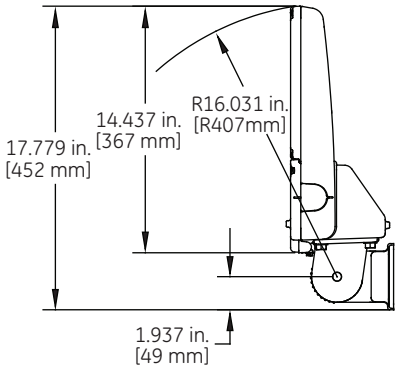
ISOMETRIC VIEW

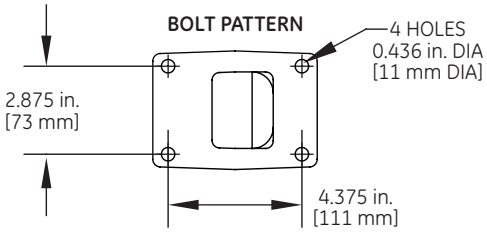


FRONT VIEW



SIDE VIEW





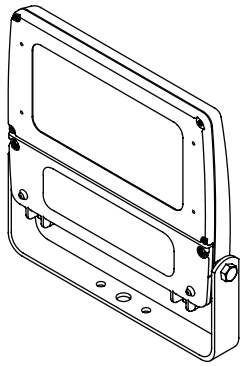
DATA

- Approximate Net Weight: 21 lbs (9.52 kgs)
- Effective Projected Area (EPA) with Knuckle Mount: 0.43 sq ft max (0.04 sq. m)

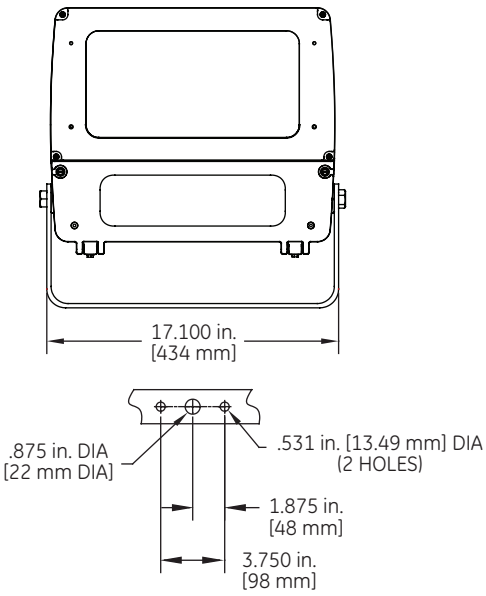
Product Dimensions

Flood Light Trunnion

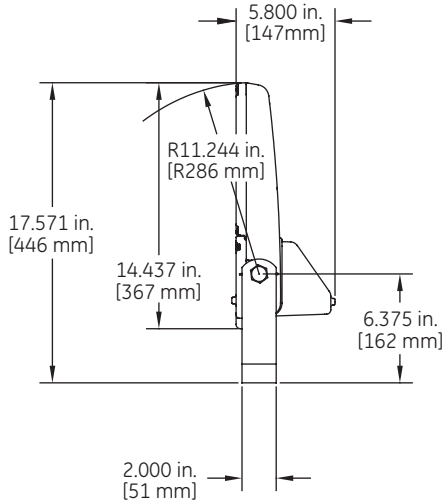
ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW



DATA

- Approximate Net Weight: 22 lbs (9.97 kgs)
- Effective Projected Area (EPA) with Trunnion Mount: 0.39 sq ft max (0.03 sq. m)

www.gelighting.com

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